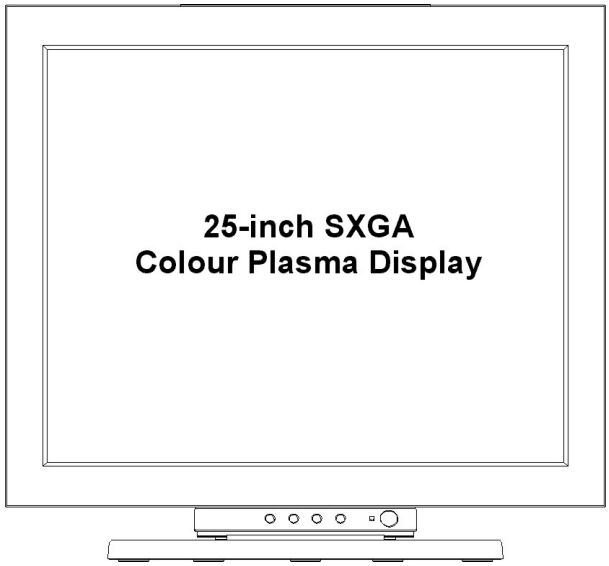
HITACHI

SERVICE MANUAL

SM0056

CMP205SXE
CMP205SXU
CMP205SXJ



NOTE:
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FEATURES

The following features are provided by the Color Plasma Display Monitor.

High Resolution SXGA Picture (1280 x 1024)

This 25-inch high-definition SXGA plasma display panel (PDP), features a pixel pitch of 0.39mm (H) x 0.39mm (V), a resolution of 1280(H) x 1024(V) fixed pixels and an aspect ratio of 5:4. It is ideal for use in video display on PCs and workstations in CAD/CAM/DTP applications and small presentations.

Completely Immune to Magnetic Fields

Because the PDP does rely on magnetically triggered deflection as does a CRT, it produces large high-quality display images free from color misconvergence and distortion, as well as from geomagnetic effects and the magnetic effects of external power sources or fields.

Super-slim, Lightweight, Flat Panel Display

This low-profile, lightweight flat panel display with a large 25-inch screen (122mm in panel depth, weighing 23kg) comfortably fits into any position in a desktop environment.

Ergonomic, user-friendly design

- Anti-glare treated surface screen to cut reflection
- Tilt and swivel features (vertical –3° to +8°, horizontal ±45°)
- Low-screen position to lessen neck and eye fatigue

Wide-range multiscan compatible (24k to 85kHz horizontal frequencies, 50 to 86Hz vertical frequencies)

EasyMenu

Front keys control the screen. OSD (on-screen display) visually shows the control status of the operator key on the screen. OSD display is available in five languages (English, French, German, Italy and Spanish).

SAFETY GUIDELINES

This monitor is designed to be safe in normal usage. However, due to high internal voltages, fire or serious injury may occur unless you use this monitor in correct way.
You are strongly suggested to follow the instruction shown below in order to avoid such injury.

Keep to the safety guidelines

Do not use the monitor if it fails

If the following occur,

❶ In the event of smoke,
❷ In the event of unusual smells,
❸ If liquid or other objects enter the product,
❹ If you drop the monitor or damage the cabinet.

① Turn off the monitor
② Disconnect the power plug from the power point
③ Request for repair

Warnings and Cautions are indicated in this guide and monitor itself.

Fire or electric shock may cause death or serious injury unless you follow the instruction

Electric shock or other accidents may cause serious injury or damage of your properties

⚠ *WARNINGS*

Fire or electric shock may cause death or serious injury unless you follow the instruction below.

- **If you see smoke or an unusual smell comes from the monitor.**
  Turn off the monitor and disconnect the power plug from the power point immediately.
  Request repair after confirming smoke is eliminated.
  If you continue to operate the monitor with such abnormal condition, it may cause fire or you may receive an electric shock.
- **Do not drop liquid or objects into the monitor.**
  If liquid or objects enter the monitor, they may cause fire or electric shock.
  In this event, turn off the monitor, disconnect the power plug from the power point and ask service center for instruction.
- **Do not put the monitor on an unstable place.**
  Only use the monitor on a flat, stable surface with sufficient strength to hold the weight of the monitor. Failure to do this may result in injury or damage to the product.
- **Do not damage the monitor**
  If no image appears, if the glass or cabinet is broken, if smoke or an unusual smell occurs after the product has been dropped or damaged, immediately turn off the monitor. remove the power plug and contact a service center. Use of the monitor with these unusual conditions may lead to fire or the risk of electric shock
- **Do not disassemble or modify the monitor.**
  This monitor includes high voltage assemblies. Disassembly or modification to the monitor may cause fire or the risk of electric shock.
- **Do not use the monitor in wet environment.**
  The use of the monitor in conditions where liquid or foreign objects are likely to enter the product is not recommended. Use in such conditions may lead to fire or the risk of electric shock.
- **Do not damage or modify the power cord.**
  If the power cord is damaged, crushed or heated it may cause fire or the risk of electric shock. If the power cord is damaged, switch off immediately, remove from the power point and contact the service center.

⚠ *WARNINGS*

Fire or electric shock may cause death or serious injury unless you follow the instruction below.

■ The enclosed power cord must be used !

Failure to do so may cause electric shock hazard or fire hazard.

In USA/Canada, use a UL LISTED/CSA LABELLED or CERTIFIED power cord set meeting the following specifications :

Rating: min. 125V, 7A , Length: max. 3.0m , Type: SVT or SJT

Plug type: NEMA 5-15P figure, Parallel blade, Grounding type

In Europe, a proper European standard approved power cord is to be used with this monitor.

For a rated current up to 6 A, a type not lighter than H05VV-F 3G 0.75 mm^2 or H05VVH2-F 3G 0.75 mm^2 must be used

UK customers please follow the instructions on the following page.

■ Use only the correct voltage power outlet with earth connection !

100 - 120 V for USA, Canada, etc.

200 - 240 V for Europe, etc.

(This monitor will automatically adjust to the input voltage 100 - 120 / 200 - 240V.)

■ Be careful of power cord connection !

Before inserting the plug of the power cord into a power point of the correct voltage, check that the connection portion of the power cord is clean.

Insert the plug of power cord to a power point firmly, otherwise it may cause electric shock or fire hazard.

■ Do not touch the power plug when during thunderstorms

Death or injury may occur

■ Do not touch the power plug with wet hands.

Death or injury may occur

■ Do not block ventilation holes.

Blocking the ventilation holes while using of the monitor or just after switching off the power, may cause a fire or electric shock due to heating up the monitor.

: Only use the monitor with the display in an upright position

: Do not enclose the monitor in a cabinet without adequate ventilation.

: Do not use the monitor on a carpet or mattress.

: Do not cover the monitor during operation.

⚠ *WARNINGS*

Fire or electric shock may cause death or serious injury unless you follow the instruction below.

■ FOR THE CUSTOMERS IN THE U.K.

THIS PRODUCT IS SUPPLIED WITH A TWO PIN MAINS PLUG FOR USE IN MAINLAND EUROPE. FOR THE U.K. PLEASE REFER TO THE NOTES ON THIS PAGE.

■ IMPORTANT FOR UNITED KINGDOM

WORDING FOR CLASS ● EQUIPMENT INSTRUCTION BOOKS AND LABELS

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA or BSI approved BS 1362 fuse must be used of the same rating. If the fuse cover is detachable never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug. Fuse covers are available from your dealer.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

Should it be necessary to change the mains plugs, this must be carried out by a competent person, preferably a qualified electrician.

If there is no alternative to cutting off the mains plug, ensure that you dispose of it immediately, having first removed the fuse, to avoid a possible shock hazard by inadvertent connection to the mains supply.

WARNING: THIS EQUIPMENT MUST BE EARTHED

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code :

Green and Yellow = Earth, Blue = Neutral, Brown = Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN and YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol ⏚ or coloured GREEN or GREEN and YELLOW.

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

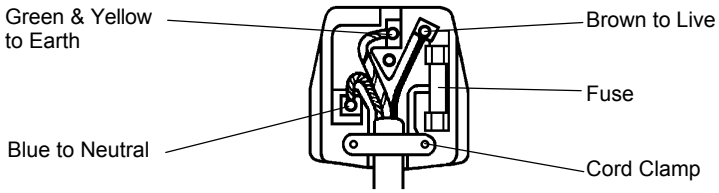
⚠ *CAUTIONS*

Electric shock or other accidents may cause serious injury or damage to properties.

■ **Ensure that you are familiar with the correct operation and positioning of the product.**

Do not place the monitor on top of computer or other equipment unless you are sure that it will not cause damage to that equipment due to distortion of the casing or blocking of the ventilation holes.

■ **Disconnect the power plug from the power point when you carry the monitor.**



Carrying the monitor without disconnecting the power plug from the power point may damage the cord and cause a fire or electric shock. It is suggested that at least two people carry the monitor to avoid the risk of injury.

Take particular care when moving or transporting, especially the glass screen which is particularly vulnerable to damage.

■ **When disconnecting the power plug.**

Pull the power plug itself, do not pull the power cord.

If you pull the power cord, you may damage it and it may cause a fire or electric shock.

Do not touch the contacts of the power plug just after disconnecting it from the power point or you may receive an electric shock.

■ **Disconnect the power plug from the power point when not in use**

This minimises the risk to yourself and the surroundings

■ **Do not place or use the monitor in dirty or high humidity atmospheres.**

It may cause a fire or the risk of electric shock.

■ **Do not expose the monitor to high temperatures.**

The positioning of the monitor in direct sunshine or in an enclosed space subject to direct sunshine or other heat source may cause a fire, transformation, or melting of the monitor.

■ **Do not place anything on the monitor**

Do not place anything on the monitor or put it in a position where it can be bumped or knocked.

The monitor may fall down or drop from a desk causing damage or injury.

■ **Do not wrap or twist the power cord.**

It may be damaged and lead to the risk of fir or electric shock.

⚠ *CAUTIONS*

Electric shock or other accidents may cause serious injury or damage to properties.

■ CAUTION for 200 - 240V operation only

This equipment relies on the protective devices in the building installation for short-circuit and over-current protection. Refer to the following table for the suitable type and location of the protective devices which should be provided in the building installation.

INFORMATIVE EXAMPLES OF PROTECTIVE DEVICES IN SINGLE - PHASE EQUIPMENT OR SUB - ASSEMBLIES

	Protection against	Minimum number of fuses or circuit - breaker poles	Location
Case A: Equipment to be connected to POWER SYSTEMS with earthed neutral reliably identified, except for Case C below.	Earth faults Overcurrent	1 1	Phase conductor Either of the two conductors
Case B: Equipment to be connected to any supply, including IT POWER SYSTEMS and supplies with reversible plugs, except for Case C below.	Earth faults Overcurrent	2 1	Both conductors Either of the two conductors
Case C: Equipment to be connected to 3-wire power systems with earthed neutral reliably identified.	Earth faults Overcurrent	2 2	Each phase conductor Each phase conductor

Verify that the protective devices in the building installation meets the conditions in the table prior to installing the equipment.

■ Remove the power cord to ensure disconnection from the power source!

For complete disconnection from the power source, remove the power cord from the monitor and/or from the wall outlet.

PRECAUTIONS

■ **Installation environment**

Do not block ventilation holes.
Do not put the monitor on carpet or blanket, or other materials which could block the ventilation holes.

Do not put the monitor in the following places.

- Near heat sources or exposed to the direct sunshine.
- Positions subject to excessive heat changes
- Dirty or high humidity atmospheres
- Positions with poor ventilation
- Positions where the product or power cord could be knocked over or pulled
- Positions subject to vibration
- Unstable surfaces or positions with insufficient strength to hold the weight of the product.

■ **Viewing the monitor**

1. Ensure adequate lighting when using the monitor. Use in a dark room for excessive periods may lead to eye fatigue.
2. Position the product to minimize reflection or glare from other light sources.
3. Do not use the monitor for excessively long periods without a break and view the monitor from an adequate distance. It is recommended that the product is viewed slightly from above and with a 10~15min break every hour to minimize eye or other discomfort.

■ **Cleaning the monitor.**

Before cleaning the monitor, turn off the monitor and disconnect the power plug from the point.
When cleaning the monitor, do not spray liquid or other cleaning materials directly onto the screen or cabinet with cleaner.
Use a clean, dry lint free cloth. If it is not enough, then use a cloth with non-alcoholic or non-ammoniac detergent. Do not use abrasive or other materials which are likely to damage the screen or cabinet. If in doubt check with your supplier or test on a small, unobtrusive position first.

■ **Prevention of an obstacle to TV/Radio receivers**

This monitor has been designed to pursuant to the FCC Rules and others to prevent interference to TV/Radio receivers.
However, this monitor may raise cause interference with TV/Radio receivers if you put this monitor close to them.

Precautions for the PDP monitor

- Use the attached signal-cable when you connect the monitor with PC equipment. Do not use the other signal-cables.
- Confirm if the connector is fixed tightly when the signal cable is connected.
- Plug the power cord of the monitor to a different socket from that for other equipment, such as TV, Radio etc.
- Use 3 pin plug with ground pin and make sure that it connects to the ground.

Precautions for TV & Radio

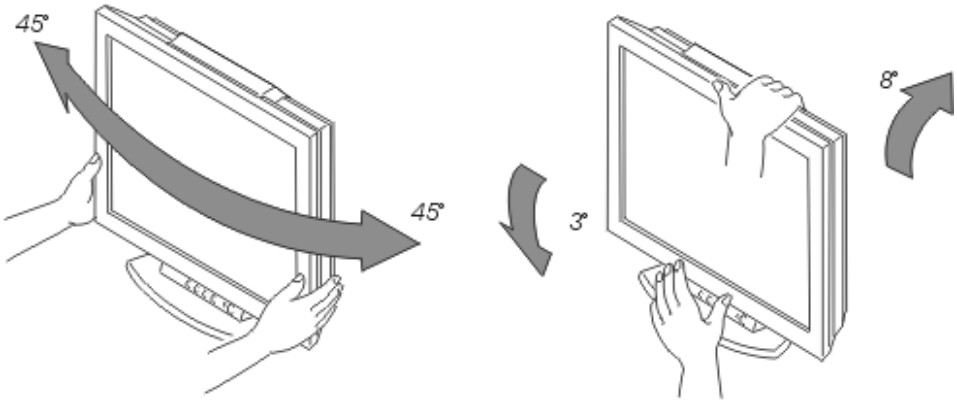
- Keep the monitor away from TV or Radio.
- Set TV or radio antennas to minimize interference.
- The antenna cable of TV or Radio should be kept away from the monitor.
- Use a coaxial cable for antenna.

You can confirm if this monitor influences TV/Radio receivers when you switch off all other equipment other than the monitor.
If you can find an obstacle of receiving TV/Radio when using the monitor, check it along with the instruction mentioned above.

■ **Precaution during transportation**

Please pay attention when you transport this monitor because it is heavy.
Use the supplied carton box and packaging materials when the monitor is transported.

■ **Display stand**



The monitor can swivel though 45 degrees both clockwise and counter-clockwise and adjusts 3 degrees in downward and 8degrees in upward directions.
All adjustments should be done using both hands.
(To tilt towards the front, push the bottom of the monitor.)

⚠ WARNING	▪ Be careful not to allow your hand to become caught between the monitor and display stand. ▪ Do not remove the display from the display stand. (The display stand is fixed in place with hooks and screws.) Using a display with the hooks or screws out of place may cause the PDP monitor to fall, thus resulting in bodily injury or damage to nearby computer equipment.

■ **FCC (Federal Communications Commission) STATEMENT WARNING**

WARNING: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

INSTRUCTIONS TO USERS: This equipment complies with the requirements of FCC (Federal Communication Commission) equipment's provided that following conditions are met.

Power cord: The provided grounded power supply cord must be used.
Signal cable: The provided shielded signal cable with bonded ferrite core must be used.

CAUTION : Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FOR THE CUSTOMER IN CANADA

NOTICE : This Class A digital apparatus complies with ICES-003.

INSTALLATION

■ **Package Contents**

Your **CMP205SX** package includes:

- ✓ CMP205SX monitor
- ✓ Signal Cable
- ✓ Power Cord
- ✓ User Manual (current manual)

Please check immediately after opening the packaging and contact your supplier immediately if any items are missing or damaged.

Also be sure to keep the packaging for use for future moving or shipping.

■ **Before starting to use the monitor**

When you connect the monitor to computer equipment, switch off both. Refer to the user manual of the computer equipment for correct connection and specification of external monitors.

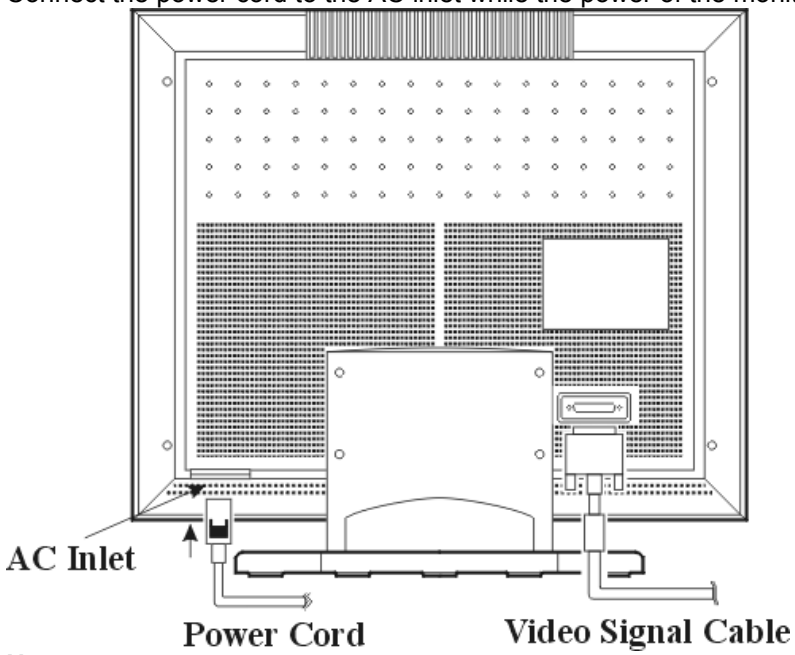
■ **Connection with PC Equipment**

Only connect the supplied video signal cable of the monitor to the video output of the PC equipment while the power is off.

⚠ CAUTION	Do not touch the video signal cable pins with unprotected hands.

■ **Connection with PC Equipment**

Connect the power cord to the AC inlet while the power of the monitor is off.



Note:

The power point should be close to the monitor and easily accessible.

Sudden voltage changes due to lightning etc. may cause failure of this equipment.

It is recommended that an AC uninterruptible power supply unit is used to prevent damage due to sudden power supply changes.

⚠ CAUTION	This PDP monitor does not provide plug-and-play capabilities. Before turning the power to your computer system on, check to make sure that the horizontal and vertical frequencies specified fall within the frequencies allowed for non-plug-and-play monitors.

STANDARD SETTINGS

Microprocessor-based preset functions can store adjusted settings.

The industrial standard settings have been pre-programmed by the factory.

Pre-programmed settings are as follows. In addition, more 15 user settings can be stored.

	Display mode	Resolution	H-frequency	V-frequency	Sync-polarity	Scanning mode
	NEC 640x400-56	640 x 400	24.83 kHz	56.42 Hz	Both of positive & negative	Non-Interlaced
	VGA-60	640 x 480	31.47 kHz	59.94 Hz		
	VGA-72/VESA	640 x 480	37.86 kHz	72.81 Hz		
	VGA-75/VESA	640 x 480	37.50 kHz	75.00 Hz		
	Mac13”-67	640 x 480	35.00 kHz	66.67 Hz		
	SVGA-56/VESA	800 x 600	35.16 kHz	56.25 Hz		
	SVGA-60/VESA	800 x 600	37.88 kHz	60.32 Hz		
	SVGA-72/VESA	800 x 600	48.08 kHz	72.19 Hz		
	SVGA-75/VESA	800 x 600	46.88 kHz	75.00 Hz		
	Mac16"-75	832 x 624	49.67 kHz	74.47 Hz		
	XGA-60/VESA	1024 x 768	48.36 kHz	60.00 Hz		
	XGA-70/VESA	1024 x 768	56.48 kHz	70.07 Hz		
	Mac19"-75	1024 x 768	60.06 kHz	74.70 Hz		
	XGA-75/VESA	1024 x 768	60.02 kHz	75.03 Hz		
	1152x864-75/VESA	1152 x 864	67.50 kHz	75.00 Hz		
	1280x960-60/VESA	1280 x 960	60.00 kHz	60.00 Hz		
*	SXGA-60/VESA	1280 x 1024	63.98 kHz	60.02 Hz		
	SXGA-75/VESA	1280 x 1024	79.98 kHz	75.03 Hz		

*SXGA-60/VESA is standard recommended timing.

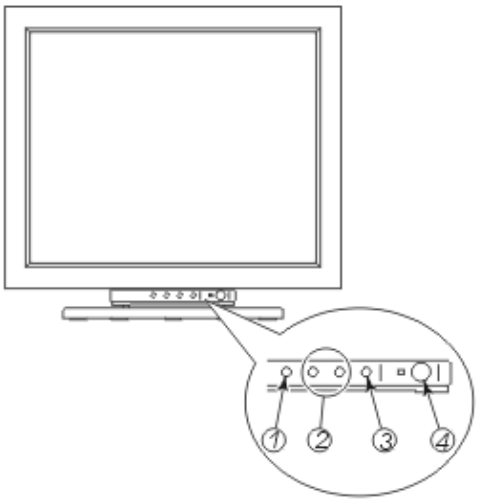
Note:

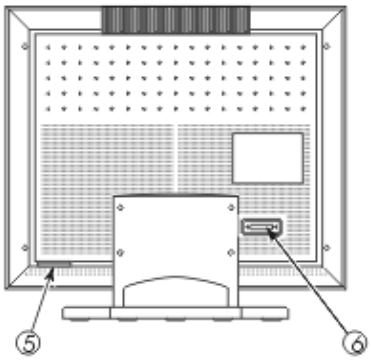
Input signals with approximately the same frequencies may be regarded as the same signal.

Timing and/or display positions might be shifted in case of connection with some equipment. In that case, please refer to “Display Adjustment”.

Standard settings are subject to change without notice.

COMPONENT PARTS AND THEIR DESCRIPTIONS





✶ MENU BUTTON

Press to display or clear the menu screen.

✷ ◑ CONTRAST ▲ / ▼ BUTTON

This button can be used to adjust contrast. Within the menu it is also used to select and change menu functions.

✹ ENTER BUTTON

Press to execute or save adjusted values within the menu.

✵ ⏻ POWER SWITCH AND INDICATOR

Indicator turns to Green when power is on. Indicator turns to Orange when power-saving function is on.

⚠ CAUTION	• Do not turn the power to the unit on and off repeatedly. • Turning the power on and off repeatedly may result in damage to the product. • The picture may fail to appear on screen when the power is turned on immediately after being turned off.

⌗ POWER INPUT TERMINAL

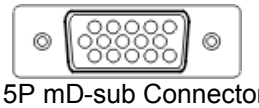
For connecting supplied power cable.

⌖ SIGNAL INPUT TERMINAL

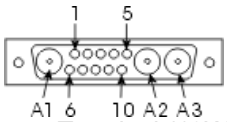
RGB VIDEO Signals and Sync Signal should be input using supplied cable. Details on following page.

The table above shows the pin arrangements for the signal input pins of the main unit and the accompanying signal cables.

15P mD-sub **(Enclosed signal cable)**	13W3 **(Video input terminal)**	Signals
P1	Center of A1	R Video
P2	Center of A2	G Video
P3	Center of A3	B Video
P4	-------	N.C.
P5	P4	GND
P6	Outer of A1	GND (R Video Return)
P7	Outer of A2	GND (G Video Return)
P8	Outer of A3	GND (B Video Return)
P9	-------	N.C.
P10	P10	GND
P11	-------	N.C.
P12	P6	N.C.
P13	P5	Hsync
P14	P7	Vsync
P15	P2	N.C.
-------	P1, P3, P8, P9	N.C.



15P mD-sub Connector
(Enclosed Signal Cable)



Video Input Terminal (13W3 type)

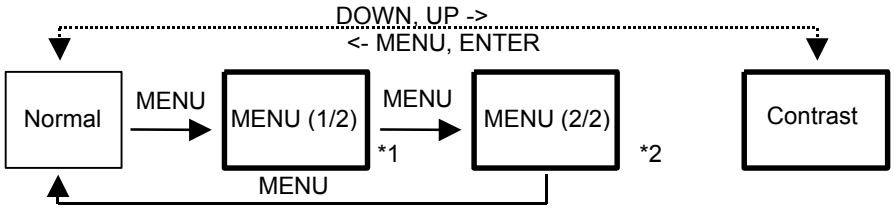
OPERATION

■ EasyMenu for Display Adjustment

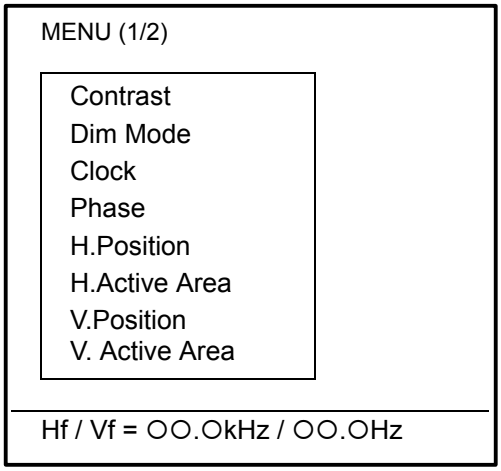
This monitor has OSD Menu for display adjustment. (EasyMenu)

Press MENU button for displaying the menu.

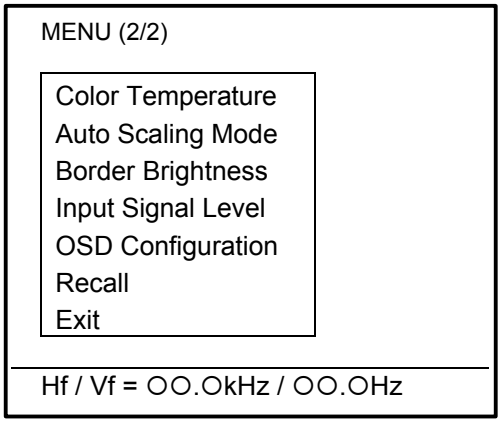
The menu has 2 modes (MENU 1 & MENU 2), and you can follow the numbered steps in sequence as shown below.



***1 MENU 1**



***2 MENU 2**



▼ / ▲ button should be pressed for the selection of the items.

Then, Press ENTER button for the adjustment & setting MENU.

■ Adjustment & Setting

(1) Contrast

CONTRAST adjusts foreground white level of screen image.

▲ : increases contrast

▼ : decreases contrast

ENTER : saves an adjusted value and closes MENU.

MENU : returns to previous adjustment state and closes MENU.

Those adjustments are valid for all input signals.

The adjusted values are automatically saved and MENU is closed unless adjustment is done within 15 seconds.

(2) Dim Mode

DIM MODE sets up a low level brightness mode.

OFF : releases setting of low level brightness mode default (Back to Nominal Value).

ON : set up a low level brightness mode.

ENTER : closes MENU.

MENU : returns to previous adjustment state and closes MENU.

Those adjustments are valid for all input signals.

The adjusted values are automatically saved and MENU is closed unless adjustment is done within 15 seconds.

(3) Clock

CLOCK adjusts sampling frequency to minimize interference patterns (Vertical edges). This is most easily adjusted using a gray background.

▲ : increases a sampling frequency

▼ : reduces a sampling frequency

ENTER : saves a adjusted value and closes MENU.

MENU : returns to previous adjustment state and closes MENU.

The adjusted values are automatically saved and MENU is closed unless adjustment is done within 15 seconds.

(4) Phase

PHASE adjusts sampling phase to minimize the flickering of characters etc.

▲ : increases sampling phase.

▼ : decreases sampling phase.

ENTER : saves an adjusted value and closes MENU.

MENU : returns to previous adjustment state and closes MENU.

The adjusted values are automatically saved and MENU is closed unless adjustment is done within 15 seconds.

NOTE:	Depending on the type of computer system used, there may be times when displaying fine black-and-white patterns may cause flickering to remain even after phase adjustment has been performed. If this happens, adjust the input signal level (i.e., the input signal amplitude) to increase the amplitude of the input signal. (Note, however, that this in turn may cause grays to turn whitish or cause the number of gradations in the high intensity zone to decrease.) If flickering remains a problem, change the display pattern.

(5) H. Position

H. POSITION adjusts horizontal position.

▲ : moves display image to the right.

▼ : moves display image to the left.

ENTER : saves an adjusted value and closes MENU.

MENU : returns to previous adjustment state and closes MENU.

The adjusted values are automatically saved and MENU is closed unless adjustment is done within 15 seconds.

(*)When allowable limits are exceeded, the scale on the EasyMenu advances but changes in the picture come to a halt.

(6) H. Active Area

H. ACTIVE AREA adjusts position of right margin and horizontal display size.

▲ : moves right margin right and increases display image.

▼ : moves right margin left and reduces display image.

ENTER : saves adjusted value and closes MENU

MENU : returns to previous adjustment state and closes MENU.

The adjusted values are automatically saved and MENU is closed unless adjustment is done within 15 seconds.

(*)When allowable limits are exceeded, the scale on the EasyMenu advances but changes in the picture come to a halt.

(7) V. Position

V. POSITION adjusts vertical position of a display image.

▲ : moves display image up.

▼ : moves display image down.

ENTER : saves an adjusted value and closes MENU.

MENU : returns to the previous adjustment state and closes MENU.

The adjusted values are automatically saved and MENU is closed unless adjustment is done within 15 seconds.

(8) V. Active Area

V. ACTIVE AREA adjusts bottom margin and vertical display size.

▲ : moves bottom margin up and decreases display image.

▼ : moves bottom margin down and increases display image.

ENTER : saves an adjusted value and closes MENU.

MENU : returns to a previous adjustment state and closes MENU.

The adjusted values are automatically saved and MENU is closed unless adjustment is done within 15 seconds.

(9) Color Temperature

COLOR TEMPERATURE changes its setting point.

Mode1 : sets color temperature high.

Mode2 : sets color temperature low. (default)

ENTER : saves an adjusted value and closes MENU.

MENU : returns to a previous adjustment state and closes MENU.

Those adjustment are valid for all input signals.

The adjusted values are automatically saved and MENU is closed unless adjustment is done within 15 seconds.

(10) Auto Scaling Mode

AUTO SCALING MODE sets a display enlarging mode.

On	: enlarges a display image to almost full screen when an Input signal is same as or less than SVGA (800x600). (default)
Off	: does not enlarge a display image.
ENTER	: executes a setting and saves its value and then closes MENU.
MENU	: makes a set value invalid and closes MENU.

This adjustment is valid for all input signals of SVGA or less.

The adjusted values are automatically made invalid unless adjustment is done within 15 seconds.

(11) Border Brightness

BORDER BRIGHTNESS sets brightness of border when an input signal is less than SXGA (1280x1024).

▲	: makes border brightness brighter.
▼	: makes border brightness darker.
ENTER	: saves an adjusted value and closes MENU.
MENU	: returns to the previous adjustment state and closes MENU.

Those adjustments are valid for all input signals

The adjusted values are automatically saved and MENU is closed unless adjustment is done within 15 seconds.

(12) Input Signal Level

INPUT SIGNAL LEVEL adjusts an amplitude of an input signal.

▲	: increases the amplitude.(Adjust this amplitude when the screen is not bright enough even though contrast is adjusted.)
▼	: decreases the amplitude. (Adjust this amplitude when the screen is whitish.)
ENTER	: saves an adjusted value and closes MENU.
MENU	: returns to the previous adjustment state and closes MENU.

Those adjustments are valid for all input signals.

The adjusted values are automatically saved and MENU is closed unless adjustment is done within 15 seconds.

(13) OSD Configuration

OSD Menu settings.

Background Mode	: OSD Background color setting.
Location	: OSD Menu position setting.
Language	: OSD Menu Language setting.
ENTER	: Executes a setting and closes MENU.
MENU	: Makes a setting invalid and closes MENU.

Those adjustments are setting for OSD Menu.

The adjusted setting are automatically saved and MENU is closed unless adjustment is done within 15 seconds.

1. Background Mode

Background Mode changes background of OSD Menu.

Blue Back	: sets background color blue.
See Through	: sets transparent background
ENTER	: executes a setting and saves its value and then close MENU.
MENU	: makes a setting invalid and closes MENU.

Those adjustments are setting for Background color of OSD Menu.

The adjusted values are automatically saved and MENU is closed unless adjustment is done within 15 seconds

2. Location

Location changes of OSD Menu position.

Center	: sets Center position.
Top Left	: sets Left Top position.
Top Right	: sets Right Top position.
Bottom Left	: sets Left Bottom position.
Bottom Right	: sets Right Bottom position.
ENTER	: executes a setting and closes MENU.
MENU	: makes a setting invalid and closes MENU.

Those adjustments are setting for position of OSD Menu.

The adjusted values are automatically saved and MENU is closed unless adjustment is done within 15 seconds.

3. Language

Changes displayed language of OSD Menu.

ENGLISH
FRANÇAIS
DEUTSCH
ESPAÑOL
ITALIANO

ENTER	: Executes a setting and closes MENU.
MENU	: Makes a setting invalid and closes MENU.

Those adjustments are setting for language of OSD Menu.

The adjusted values are automatically saved and MENU is closed unless adjustment is done within 15 seconds

(14) Recall

RECALL returns all adjusted and set values to factory settings.

No	: No change
Yes	: Returns all adjusted and set values to factory settings.
ENTER	: Executes a setting and closes MENU.
MENU	: Makes a setting invalid and closes MENU.

All preset time settings are reset to their factory shipment defaults.

The adjusted values are automatically made invalid unless adjustment is done within 15 seconds. EXIT closes MENU.

(15) Exit

Used to exit from the Adjust/settings menu.

(16) Hf/Vf

Hf/Vf displays horizontal frequency(Hf) and vertical frequency(Vf) of input signals.

No adjustment or setting capabilities are provided.

POWER SAVING FUNCTION

This PDP monitor comes with a VESA DPMS power conservation mode. When in power saving mode, the indicator lamp will light up in orange, and the display will enter one of the states indicated in the following table depending on the computer system to which it has been connected.

Power consumption state	Display	H-sync	V-sync	Power consumption	Recovery time	LED Indicator
Normal	Normal	On	On	360W(max)	-	Green on
Stand-by	None	Off	On	65W(max)	Aprox. 1 seg.	Orange on
Suspend	None	On	Off	65W(max)	Aprox. 1 seg.	Orange on
Active-off	None	Off	Off	45W(max)	Aprox. 3 seg.	Orange on

TROUBLESHOOTING

Symptom	Cure
◆ No Screen Image LED in front of the monitor does not light.	-Make sure power switch is ON. -Make sure AC power cord is securely connected to the back of the monitor and to a power outlet. -Make sure power switches are ON.
LED in front of the monitor is orange.	-Push keyboard keys of computer. -Make sure the video cable supplied with the monitor is tightly secured to the video output port on the back of the computer. -Make sure the pins of the video cable connector are not bent.
LED in front of the monitor is green.	-Adjust the contrast using ○ or ○ on the front of the monitor. No display image may be failure of the monitor. -Switch the monitor off then on. If no image appears, there may be a fault.
◆ An 'Out of Range: Hf = xxx Khz, Vf = xxx Hz' message appears and then disappears after 5 seconds. (No picture is displayed.)	-Make sure the frequency of the computer graphic board is supported by the monitor.
◆ Line Flickering	-Use the EasyMenu to try to adjust the clock phase from the OSD menu before then adjusting the position of the picture from the OSD menu.
◆ Dislocation of image Wrong size of image	-Adjust a display active area and/or position in OSD MENU.
◆ Horizontal stripe noise	-Check to make sure that there are no electronic devices near the

Symptom	Cure
	monitor generating excessive levels of EMI/RFI noise. -Connect the monitor to another power source.
◆ Surface temperature of display too high.	-Plasma display panels discharge electricity within the panel to generate light. While this may cause the temperature of the surface of the panel to rise, it does not indicate the existence of any problems. It is possible to lower the temperature of the surface of the display panel by using screen savers or by otherwise dimming the display. -The temperature of the surface of the display may be lowered by using a screen saver or by otherwise dimming the display. -The temperature of the surface of the display may be lowered by using a screen saver or by otherwise dimming the display.
◆ Noise appears at specific resolutions	-Use the EasyMenu to adjust the input signal level.
◆ Pixels which differ from neighboring pixels* appear on screen * Pixels which differ from neighboring pixels: dead pixels, pixels brighter than surrounding pixels, or pixels differing in color from surrounding pixels	-Although plasma display panels are manufactured using the highest-precision manufacturing techniques, dead pixels or overly bright pixels may sometimes be found on screen. Note that this sometimes happens, and should not be regarded as a defect.
◆ Ghosted images appear	-Ghosting sometimes appears when a single image is displayed over a long period of time, thus causing the image to be burned into the screen. To reduce the possibility of such ghosting from occurring, a screen saver should be used or some other step should be taken to ensure that the display is changed at regular intervals.
◆ Degree of resolution is reduced	-Depending on the image displayed, the number of degrees of resolution may be reduced. Note that this happens when monitor enters power conservation mode, and that it should not be regarded as a defect in the monitor.

If you cannot resolve the problem, please call service center.

Ensure that you have the product name and serial number of your monitor and name of computer connected with the monitor, specification & name of video card of the computer before contacting the service center.

SPECIFICATIONS

Display Device	Type Pixel pitch Effective diagonal size	PDP (Plasma Display Panel) 0.39mm 64cm (25inch)
Input	Signal Connector Video Signal Sync Signal fH fv	13W3 straight type (1 system) Analog RGB: 0.7Vp-p / 75ohm / Positive H/V separate sync: TTL / Posi&Nega 24 kHz ~ 85 kHz 50 Hz ~ 86 Hz
Power	Voltage Frequency Consumption	AC100V-120V / 200-240V (automatically selected) 50/60Hz 360W (Max)
Display	Effective Area Resolution Scan Scan	499mm(W) x 399mm(H) 1280 dots(H) x 1024 lines(V) Non-Interlaced
Environment	Temperature Humidity	5 °C ~ 35 °C 20 % ~ 80 % (No condensation)
Dimension	Monitor Weight	590mm(W) x 550mm(H) x 122mm(D)* * Depth excludes stand. 23 kg (Only monitor including stand)

- The monitor takes at least 30 minutes to attain the status of optimal picture quality.
- This product may be subject to changes in specifications or external appearance without prior notice.

THE UPDATED PARTS LIST

FOR THIS MODEL IS

AVAILABLE ON ESTA

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